

## MAJOR DUTIES

1. Serves as Chief Mate of a self-propelled, sea-going, automated hopper dredge, engaged in the maintenance and improvement of harbors and channels. Serves as Assistant Master when the Assistant Master is absent or serving as Master. During such periods, the incumbent is responsible for the maintenance and upkeep of the vessel. Consults with the Chief Engineer to determine the amount and kind of deck equipment maintenance and repair to be performed, and inspects and supervises crew members and contracts in the accomplishment thereof. Requisitions material to be used by the Deck Department. Directs personnel under his supervision in safe work methods and in the proper functioning of all deck operated equipment.
2. Stands regularly scheduled bridge watches with duties consisting of complete navigation and control of the vessel; steering or supervision of steering; controlling propulsion and variable pitch propeller systems; operating pilothouse navigation, safety, and emergency equipment; and supervising of the dredging function. Maintains bridge log during watches and records movement of vessel, tide, sea conditions, and other events and activities. Gives signals as prescribed by International and Inland Rules of the Road.
3. Stands dredge control watches performing dredging operation in accordance with plans, specifications and instructions. Operates controls involving the dredging and dumping function. Observes gages and adjusts controls to insure optimum loads. Performs the dredging and dumping functions as directed by the mate on the Bridge Watch. Is cognizant of sidewise set of vessel due to the combined effects of wind current and sea conditions, and raises drags when necessary to prevent binding and breakage of pipe against side of dredge. Records dredging production information and makes entries on multiple load data sheets. Performs and directs maintenance on all dredging equipment during assigned watch.
4. Makes regular inspection of life-saving and fire-fighting equipment to determine that such equipment is in safe operating condition. Assists Master or Assistant Master in conducting fire, lifeboat, and man-overboard drills. Serves as First Aid Officer for the dredge with responsibility for the dispensing, maintaining, and requisitioning of medical supplies and equipment on board.
5. When assigned, the incumbent will be in charge of the vessel during tie-up periods.

Performs other duties as assigned.

## SKILLS AND KNOWLEDGES

Must possess U.S. Coast Guard unlimited license for at least Chief Mate, Oceans. In addition to the Nautical Rules of the Road, the most fully utilized licensed functional areas are piloting, seamanship including shiphandling, and tides and currents. Must possess the ability to understand the principles of operation of automated winches and related mechanical systems. Must be capable

of being trained in the operation, troubleshooting, and repair of electronic-mechanical systems. Development of a greater degree of expertise in the fields of shiphandling and pilotage than is required by the Coast Guard must be attained. Must possess a currently valid license as Chief Mate of vessels of this type, for waters in which the dredge operates.

## RESPONSIBILITY

Works under the general supervision of the Assistant Master. Performs duties and carries out responsibilities in accordance with established practices as required by regulations governing the operation of the vessel. Work is given an occasional spot check by observation of the vessel operation and review of log. Regulatory controls consist of Corps of Engineers policies, U.S. Coast Guard rules and regulations, and dredging orders. Is required to possess a valid license for Chief Mate of Ocean Vessel issued by the U.S. Coast Guard appropriate to that vessel.

## WORKING CONDITIONS

Work is performed in the pilot house, on deck and in other locations of the vessel. Spends most of the time in the pilothouse. Occasionally goes outside in all kinds of weather to attend to duties, being exposed to the elements and subject to slipping on wet decks. Danger of drowning is present in case of accident. There is danger from traffic hazards, particularly in foggy weather and at night.

## PHYSICAL EFFORT

Light to moderate physical effort is required for continuous standing and operating of various controls. Incumbent must have color and depth perception and be able to see in low visibility conditions in order to navigate a dredge.